

MINISTRY OF TRANSPORTATION AND LOGISTICS

THE SPECIFICATION OF DUMP TRUCKS

Model	
Engine 1	<p>Diesel: 4 stroke diesel engine Engine model: WP10.340E22, Euro II emission standard 6 cylinder in-line with 4 valves, water cooling, turbo-charging & intercooling Maximum output: 340hp (250Kw) at 2200 rpm Maximum torque: 1400Nm at 1300~1500 rpm Displacement: 9.726L; Bore: 126mm; Stroke: 130mm Compression ratio:15.5:1; Specific fuel consumption: 191g/kWh; Engine oil filling quantity: 24L Thermostat with 76 °C opening begin; Single cylinder air compressor, displacement \geq450L/min Rigid fan</p>
Engine 2	<p>Engine model: WD615.69, Euro II emission standard 4 stroke direct injection diesel engine 6 cylinder in-line with water cooling, turbo-charging & intercooling Maximum output: 336hp(247Kw)at 2200 rpm according to DIN Maximum torque: 1350Nm at 1100~1600 rpm Bore: 126mm; Stroke: 130mm; Displacement: 9.726L; Compression ratio:17:1 Specific fuel consumption: 195g/kWh; Engine oil filling quantity: 23L Cooling system filling quantity (long-term filling): 40L Thermostat opening temperature: 71°C Twin cylinder air compressor, displacement \geq450L/min Rigid fan</p>
Clutch	Single- plate dry diaphragm spring clutch, diameter 430(B) mm, hydraulically operating with air assistance
Transmission	Transmission, model HW19710 with HW50 PTO, 10 forward and 2 reverse Ratio:14.28 10.62 7.87 5.88 4.38 3.72 2.43 1.80 1.34 1.00 13.91/3.18(R)
Propeller Shaft	Double universal joint propeller shaft with gear-shaped coupling flange
Front Axle	Steering with double T-cross section
Rear Axles	Casted axle housing, central single reduction with planetary wheel reduction (hub reduction) and differential locks between wheels and axles
Chassis	<p>Frame: U-profile parallel ladder type with section of 300×80×(8+8) mm, all cold riveted cross members and reinforced subframe Front suspension: 11 semi-elliptic leaf springs with hydraulic telescopic double-action shock absorbers and stabilizer Rear suspension: 12 semi-elliptic leaf springs with bogie spring and stabilizer With one spare wheel Fuel tank: with 300 L fuel tank with locking fuel cap Air Tanks (Reservoirs): Total Capacity: 40+40+30+20L liters (combined) Number of Tanks: 3 (primary, secondary, auxiliary), with air dryer function</p>
Steering	BOSCH steering box, hydraulic steering with power assistance Ratio: 22.2~26.2:1
overloading sensor system	<p>The on-board weighing system uses surface-mounted strain sensors. Installation of strain sensors: Mounted on the surface of the axle center of 1st axle and the leaf springs between 2nd and 3rd axles. The number of sensors: 3 surface-mounted sensors, 1 sensor in front, 2 sensors in rear. Measurement range is independent of vehicle load capacity. Accuracy: \pm2% of full scale. Power Supply: 24V DC (vehicle battery). Operating Temperature: -25°C to +85°C. Communication Interfaces: RS232 and CAN-bus, connecting to printer or telematics. Data Transmission: Gross vehicle weight, axle load data.</p>
Measurement Parameters	<p>Real-time axle load distribution Gross vehicle weight (GVW)</p>
Display & Alerts	Display unit shows real-time gross vehicle weight and axle load.
Warning System	<p>Stage 1 Warning (90% capacity): Yellow light + single chime Stage 2 Warning (100% capacity): Red flashing light + continuous beep Internal LED flashing alarm. 3-channel overloading output signals for audio-visual alarms and monitoring system.</p>

	Customizable alarm thresholds. Warnings are triggered for both axle overloading and gross weight overloading																		
Brakes	Service brake: dual circuit compressed air brake with ABS Parking Brake(emergency brake): spring energy, compressed air operating on rear wheels Auxiliary brake: engine exhaust brake Automatic Slack Adjuster Wheel Speed Sensors: 4 (one per rear axle wheel, two for front) ABS Model: WABCO 4S/4M (4-sensor, 4-modulator) Compliance: ECE R13 (European standard for heavy vehicles)																		
Wheel & Types	Rims: 8.5-20, 10 hole-steel Types 12.00R20 tube																		
Driver's cab	TX-F long cab, all steel forward control, 60° hydraulically tiltable to the front, 2-arm windscreen wiper system with 3 speeds, laminate windscreen, with casted-in radio aerial, air suspension adjustable driver's seat and rigid adjustable co-driver's seat, stereo radio with USB connector, sun visor, and adjustable steering wheel, air horn, single sleeper with 4-point support fully floating suspension and shock absorber with transverse stabilizer, safety belt, air conditioner, electric control window glass																		
Electrics	Operating voltage:24V, negative grounded; Starter: 24V, 8.5KW Alternator: 28V, 2240W; Batteries: 2x12, 165Ah Cigar-lighter, horn, headlamp, fog light, brake lights, indicators and reverse lamp																		
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The manufacture reserves the right of technical alteration/change for better improvement without prior notice.